Human SIRPa Protein, hFc-His Tag Cat. No. PME100009



## **PRODUCT INFORMATION**

Target	SIRPa
Synonyms	SHPS1;SIRPA;CD172A;BIT;MFR;MYD1;P84;PTPNS
Description	Recombinant Human SIRPa with C-terminal human Fc and 6×His tag
Delivery	In Stock
Uniprot ID	P78324
<b>Expression Host</b>	HEK293
Тад	C-Human Fc and 6×His Tag
Molecular Characterization	SIRPa(Glu31-Tyr373) hFc(Glu99-Ala330) 6×His tag
Molecular Weight	The protein has a predicted molecular mass of 70-98 kDa after removal of the signal peptide. The purity of the protein is greater than 95% as
Purity	determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage & Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	Tyrosine-protein phosphatase non-receptor type substrate 1 (SHPS1) is also known as CD172 antigen-like family member A (CD172a), Macrophage fusion receptor, MyD-1 antigen, Signal-regulatory protein alpha (SIRPA or SIRP alpha) or p84, is a member of the SIRP family, and also belongs to the immunoglobulin superfamily. SIRP alpha is Ubiquitous and highly expressed in brain. SIRPA / CD172a is immunoglobulin-like cell surface receptor for CD47 and acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRPA / SHPS-1 supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment and may play a key role in intracellular signaling during synaptogenesis and in synaptic function By similarity. SIRPA / MyD1 involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell adhesion, growth factors or insulin and mediates negative regulation of phagocytosis, mast cell activation and dendritic cell activation. CD47 binding prevents maturation of immature dendritic cells.
Usage	Research use only
Conjugate	Unconjugated

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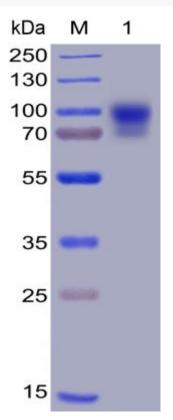
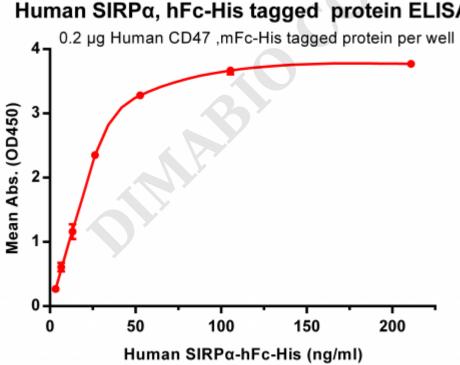


Figure 1. Human SIRPα, hFc-His Tag on SDS-PAGE under reducing condition.



Human SIRPα, hFc-His tagged protein ELISA

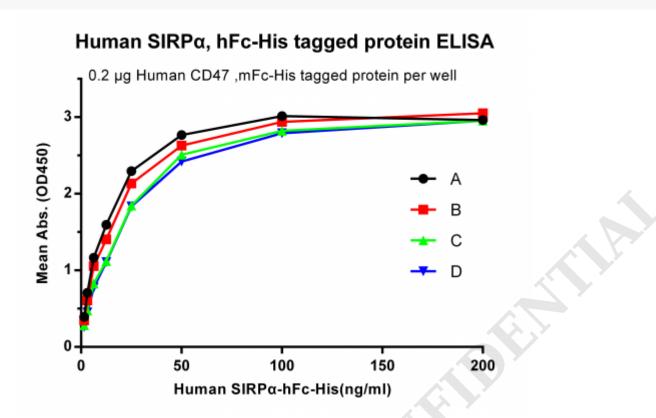
**Figure 2**. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human CD47, mFc-His tagged protein ([getskuurl sku="PME100008"]) can bind its native ligand Human SIRP $\alpha$ , hFc-His tagged protein (PME100009) in a linear range of 3.3-26.37 ng/ml.

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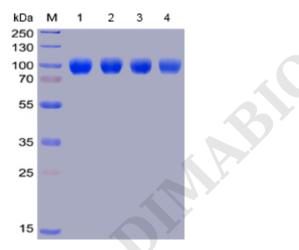
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**Figure 3**. A: Human SIRPα, hFc-His tagged protein without freeze-thaw treatment. B: Human SIRPα, hFc-His tagged protein after one freeze-thaw cycle. C: Human SIRPα, hFc-His tagged protein after three freeze-thaw cycles. D: Human SIRPα, hFc-His tagged protein after three freeze-thaw cycles. D: Human SIRPα, hFc-His tagged protein after three freeze-thaw cycles. D: Human SIRPα, hFc-His tagged protein after three freeze-thaw cycles. D: Human SIRPα, hFc-His tagged protein after three freeze-thaw cycles. D: Human SIRPα, hFc-His tagged protein after three freeze-thaw cycles. D: Human SIRPα, hFc-His tagged protein after three freeze-thaw cycles. D: Human SIRPα, hFc-His tagged protein after three freeze-thaw cycles.



**Figure 4**. Lane 1: Human SIRPα, hFc-His tagged protein without freeze-thaw treatment, Lane 2: Human SIRPα, hFc-His tagged protein after one freeze-thaw cycle, Lane 3: Human SIRPα, hFc-His tagged protein after three freeze-thaw cycles, Lane 4: Human SIRPα, hFc-His tagged protein after five freeze-thaw cycles.

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